

Benzimidazole and imidazo-pyridine derivatives, useful in treatment of obesity, cachexia, anorexia, anxiety, depression, pain, and erectile dysfunction, have affinity for melanocortin receptors

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Abstract of FR2851563

Benzimidazole and imidazo-pyridine derivatives (I) are new. Benzimidazole and imidazo-pyridine derivatives (I), their racemic and enantiomeric forms and their mixtures and their salts are new. A = CH₂ CO or C(O)C(Ra)(Rb); X = C or N; Ra, Rb = H or 1-6C alkyl; R₁, R₂ = H, 1-8C alkyl (optionally substituted by OH), 2-6C alkenyl or (CH₂)_nX₁; X₁ = 3-7C cycloalkyl, heterocycloalkyl, aryl or heteroaryl (all optionally substituted by one or more halogen, NO₂, CN or (CH₂)_n-V₁Y₁), 1-6C alkoxy or adamantyl n = 0-6, such that when it is 0, then X₁ is neither OH nor alkoxy; or NR₁R₂ = heterobicycloalkyl or heterocycloalkyl (both optionally substituted by one or more S₁), 2,5-dihydro-1H-pyrrolo, 1,2,5,6-tetrahydropiperidino or a spirofused group of formula (a); S₁ = OH, 1-6C alkyl, 1-6C hydroxyalkyl, 1-6C alkoxy carbonyl or C(O)NV₁Y₁; V₁, Y₁ = H or 1-6C alkyl; R₃ = (CH₂)_p-Z₃ or C(O)Z₃; Z₃ = 1-6C alkyl, 2-6C alkenyl, 1-6C alkoxy, 1-6C alkoxy carbonyl, 3-7C cycloalkyl or heterocycloalkyl (both optionally substituted by 1-6C alkyl), aryl (optionally substituted by one or more halogen, azido, NO₂ or (CH₂)_pV₃Y₃), heteroaryl or a bicyclic group of formula (b) or (c); r = 1 or 2; V₃ = O, S, C(O), C(O)O, NHC(O), (O)NR₃, NHC(O)NR₃ or a bond; Z₃ = aryl (optionally substituted by one or more halogen, NO₂ or (CH₂)_pV₃Y₃); V₃ = O, C(O), C(O)O, C(O)NR₃, NHC(O)NR₃ or a bond; Y₃, Y₃ = H or 1-6C alkyl (optionally substituted by one or more halogen); R₃ = H, 1-6C alkyl or 1-6C alkoxy; R₄ = (CH₂)_sR₄; R₄ = heterocycloalkyl containing at least one N (optionally substituted by 1-6C alkyl or aralkyl), heteroaryl containing at least one N (optionally substituted by 1-6C alkyl) or NW₄W₄; W₄ = H or 1-8C alkyl; W₄ = (CH₂)_s-Z₄; Z₄ = H, 1-8C alkyl (optionally substituted by one or more S₄), 2-6C alkenyl, 3-7C cycloalkyl (optionally substituted by one or more 1-6C alkyl), cyclohexene, heteroaryl, aryl (optionally substituted by one or more S₄) or a group (b); S₄ = 1-6C alkoxy, 1-6C alkylthio or OH; S₄ = (CH₂)_sV₄Y₄, OH, halogen, NO₂ or CN; s = 0-4; V₄ = O, S, NHC(O), N(V₄) or a bond; V₄ = H or 1-6C alkyl; Y₄ = H or 1-6C alkyl (optionally substituted by one or more halogen); s, s' = 0-6; with the proviso that, when R₃ = C(Z₃ and R₄ = (CH₂)_sNW₄W₄ with W₄ and W₄ representing H or alkyl, then (CH₂)_s is neither ethylene nor -(CH₂)-CH((1-4C) alkyl)-. An Independent claim is also included for preparation of (I).

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